

INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/12830

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/18 C07K16/10 A61P31/14 A61K39/29

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS, WPI Data, EMBASE, MEDLINE, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>WO 01 30812 A (CHIRON CORP ;PALIARD XAVIER (US); SELBY MARK (US); HOUGHTON MICHAEL) 3 May 2001 (2001-05-03) cited in the application page 3, line 23 - line 27 page 17, line 22 -page 18, line 2 page 22, line 19 - line 25</p> <p style="text-align: center;">--- -/-</p>	1,6,18, 19,21-23

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*Z\* document member of the same patent family

Date of the actual completion of the international search

25 February 2004

Date of mailing of the international search report

11/03/2004

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01 38360 A (MEDINA SELBY ANGÉLICA ;CHIRON CORP (US); COIT DORIS (US); SELBY MA) 31 May 2001 (2001-05-31) page 3, line 16 -page 4, line 9 page 4, line 24 - line 31 page 6, line 23 - line 25 page 10, line 27 -page 11, line 7 page 26, line 22 page 27, line 1 - line 19 page 28, line 11 - line 14 page 44, line 17 - line 22	1-4, 6-19, 21-23
Y	the whole document	5,20
Y	WO 96 10997 A (WAKITA TAKAJI ;ZURAWSKI VINCENT R JR (US); APOLLON INC (US); CONEY) 18 April 1996 (1996-04-18) page 12, line 18 - line 35 page 15, line 1 - line 15	5
Y	WO 97 47358 A (SHIVER JOHN W ;DONNELLY JOHN J (US); LIU MARGARET A (US); LU TONG) 18 December 1997 (1997-12-18) cited in the application page 5, line 29 -page 10, line 8 page 18, line 8 - line 21 figures 12,13	20
A	WO 96 37606 A (LIAO JAW CHING ;WANG CHENG NAN (TW); BIONOVA CORP (US)) 28 November 1996 (1996-11-28) cited in the application the whole document	1-23
A	WO 01 04149 A (US HEALTH) 18 January 2001 (2001-01-18) cited in the application the whole document	1-23
A	US 2002/141974 A1 (CHANG STEPHEN M W ET AL) 3 October 2002 (2002-10-03) the whole document	1-23
A	ALVAREZ-OBREGON J C ET AL: "A truncated HCV core protein elicits a potent immune response with a strong participation of cellular immunity components in mice" VACCINE, BUTTERWORTH SCIENTIFIC. GUILDFORD, GB, vol. 19, no. 28-29, 16 July 2001 (2001-07-16), pages 3940-3946, XP004247549 ISSN: 0264-410X abstract	1-23

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,Y	<p>MOORMAN JONATHAN P ET AL: "The C-terminal region of hepatitis C core protein is required for Fas-ligand independent apoptosis in Jurkat cells by facilitating Fas oligomerization."</p> <p>VIROLOGY, vol. 312, no. 2, 1 August 2003 (2003-08-01), pages 320-329, XP004446041 ISSN: 0042-6822 (ISSN print) the whole document</p> <p>-----</p>	5



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International application No.  
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## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  

Although claims 21 and 22 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

### Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.



# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0130812	A	03-05-2001	AU 1236801 A CA 2389206 A1 EP 1232267 A2 JP 2003512826 T WO 0130812 A2 US 2003170274 A1 US 6562346 B1	08-05-2001 03-05-2001 21-08-2002 08-04-2003 03-05-2001 11-09-2003 13-05-2003
WO 0138360	A	31-05-2001	AU 2574601 A CA 2390082 A1 CN 1425027 T EP 1233982 A2 JP 2003516732 T WO 0138360 A2	04-06-2001 31-05-2001 18-06-2003 28-08-2002 20-05-2003 31-05-2001
WO 9610997	A	18-04-1996	AU 2033699 A AU 701747 B2 AU 4006195 A CA 2202088 A1 EP 0789563 A1 HU 77870 A2 JP 11501204 T NZ 296304 A WO 9610997 A1 US 2002161218 A1 US 6235888 B1 RU 2189254 C2 US 6025341 A	20-05-1999 04-02-1999 02-05-1996 18-04-1996 20-08-1997 28-09-1998 02-02-1999 29-06-1999 18-04-1996 31-10-2002 22-05-2001 20-09-2002 15-02-2000
WO 9747358	A	18-12-1997	AU 717542 B2 AU 3380897 A CA 2257137 A1 EP 1009763 A1 JP 2002500502 T WO 9747358 A1 US 2003053987 A1	30-03-2000 07-01-1998 18-12-1997 21-06-2000 08-01-2002 18-12-1997 20-03-2003
WO 9637606	A	28-11-1996	AU 5924396 A WO 9637606 A1	11-12-1996 28-11-1996
WO 0104149	A	18-01-2001	AU 6207700 A CA 2379235 A1 EP 1200465 A1 WO 0104149 A1 US 2002090607 A1	30-01-2001 18-01-2001 02-05-2002 18-01-2001 11-07-2002
US 2002141974	A1	03-10-2002	US 6297048 B1 AT 219522 T AU 3610293 A AU 7530996 A CA 2128896 A1 DE 69332045 D1 DE 69332045 T2 DK 625204 T3 EP 0625204 A1 ES 2174845 T3 JP 2000154152 A JP 7503615 T	02-10-2001 15-07-2002 01-09-1993 20-02-1997 05-08-1993 25-07-2002 17-10-2002 15-07-2002 23-11-1994 16-11-2002 06-06-2000 20-04-1995



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Information on patent family members

International Application No

PCT/EP 03/12830

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2002141974	A1	JP 2003055265 A	26-02-2003
		PT 625204 T	31-10-2002
		WO 9315207 A2	05-08-1993